

FIG. 1

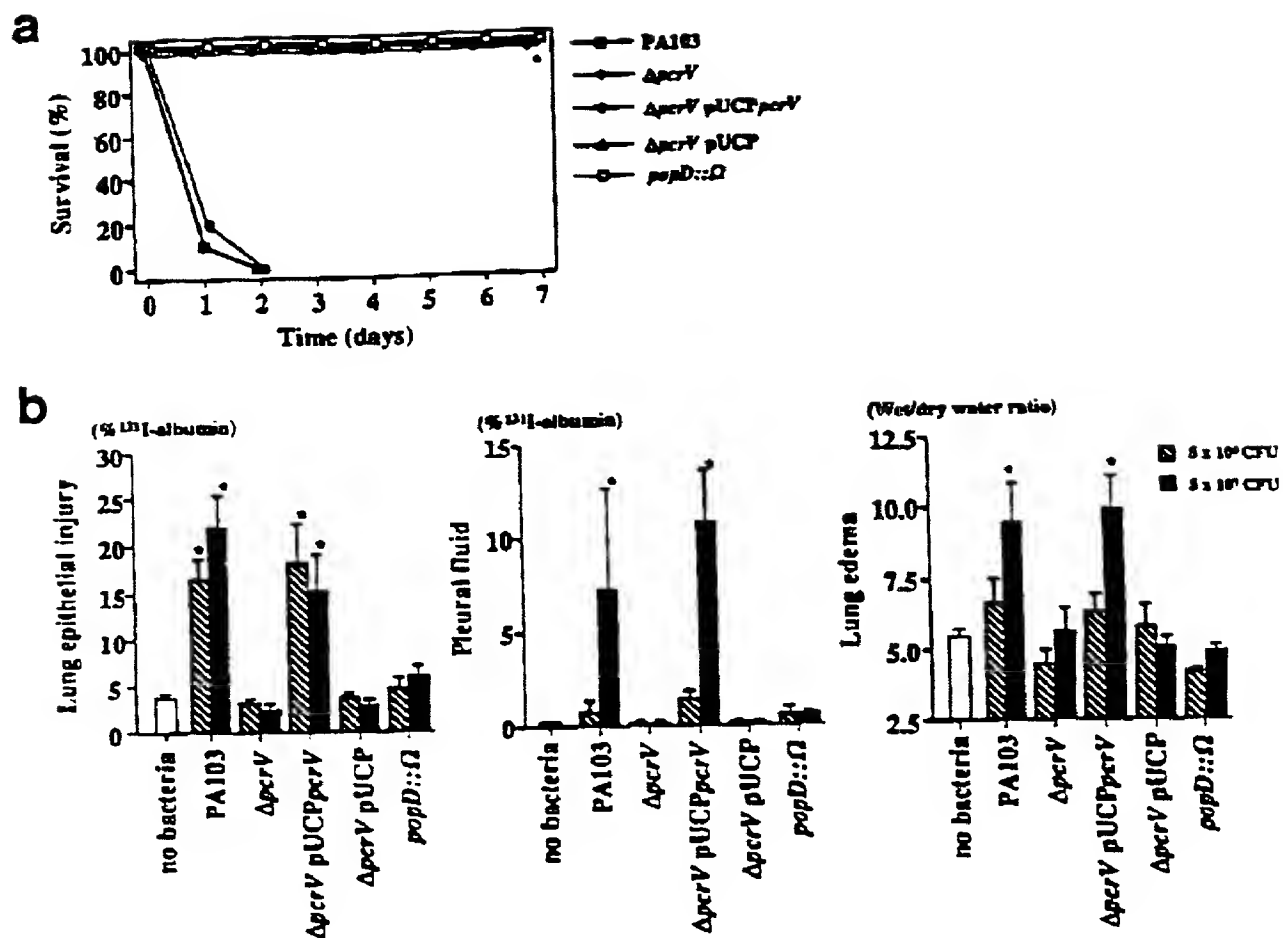
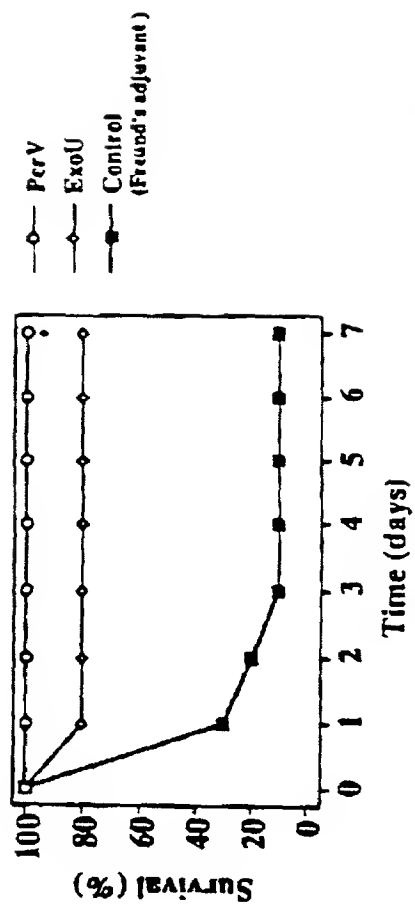


FIG. 2

a



b

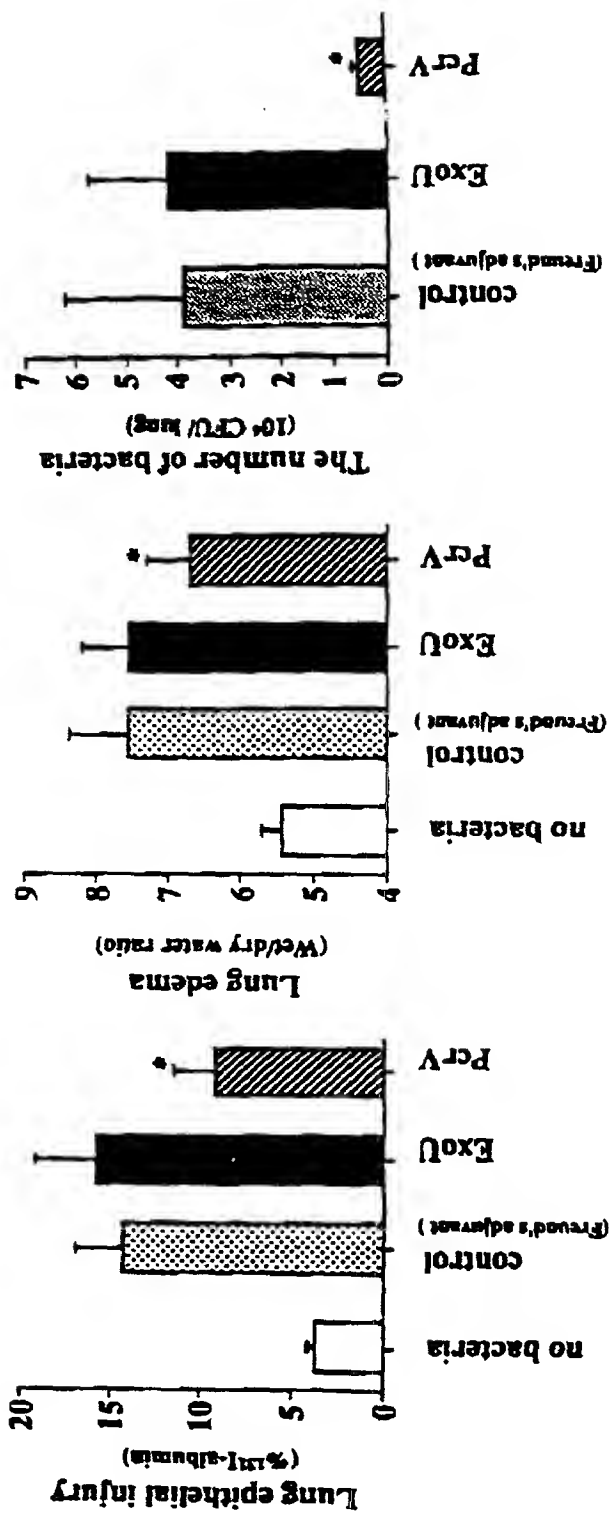


FIG. 3

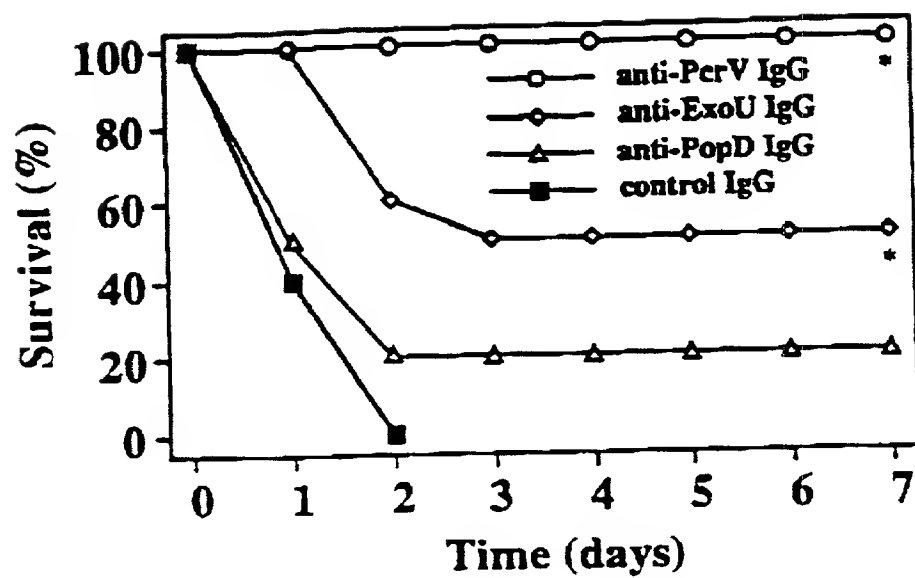
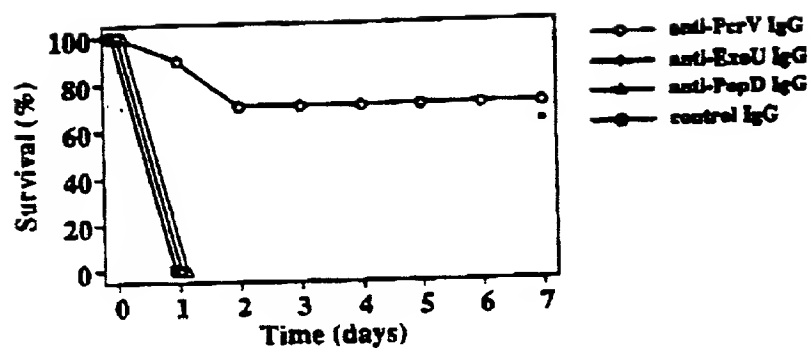


FIG. 4

a



b

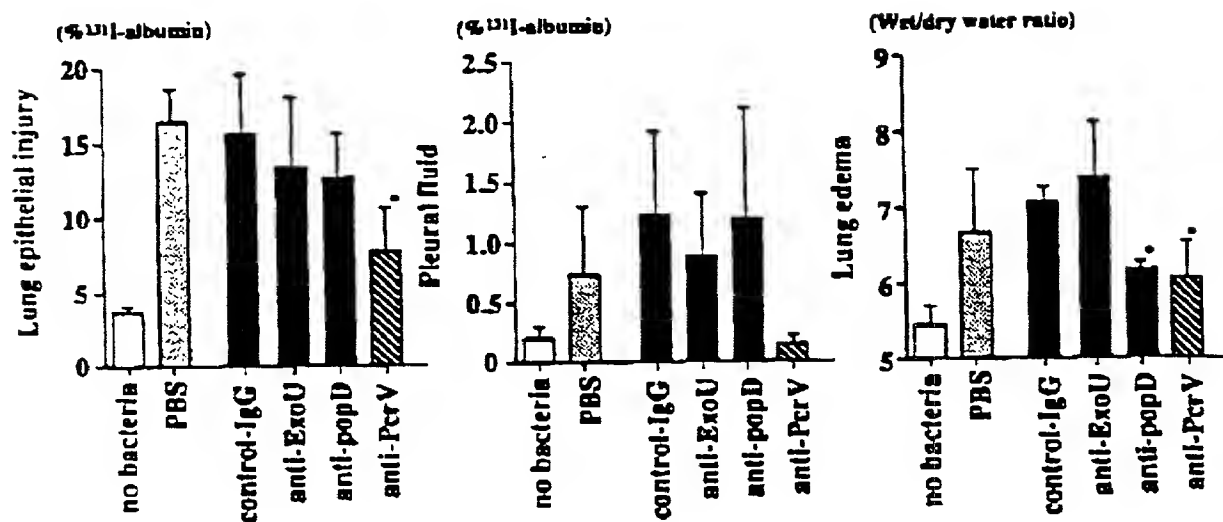


FIG. 5

m166 heavy chain

1. m166 heavy chain (IgG2b) complete mRNA sequence:

(From the transcriptional start point to the polyA-tail)

```
*****
CCATCCTCTT CTCATAGAGC CTCCATCAGA GCATGGCTGT CTTGGGGCTG
CTCTTCTGCC TGGTGACATT CCCAAGCTGT GTCCTATCCC AGGTGCAGCT
GAAGCAGTCA GGACCTGGCC TAGTGACAGC CTCACAGAGC CTGTCCATCA
CCTGCACAGT CTCTGGTTTC TCATTAACTA GCTATGGTGT ACACTGGGTT
CGTCAGTCTC CAGGAAAGGG TCTGGAGTGG CTGGGAGTGA TATGGAGTGG
TGGAGACACA GACTATAATG CAGCTTTCAT ATCCAGACTG AGCATCAGCA
AGGACAATTC CAAGAGCCAA CTCTTCTTTA AAATGAACAG TCTGCGAGCT
ACTGACACAG CCATATATTA CTGTGCCAGA AATAGAGGGG ATATTTACTA
TGATTTCACT TATGCCATGG ACTACTGGGG TCAAGGAACC TCAGTCACCG
TCTCCTCAGC CAAAACAACA CCCCCATCAG TCTATCCACT GGCCCCCTGGG
TGTGGAGATA CAACTGGTTC CTCCGTGACT CTGGGATGCC TGGTCAAGGG
CTACTTCCCT GAGTCAGTGA CTGTGACTTG GAACTCTGGA TCCCTGTCCA
GCAGTGTGCA CACCTTCCCA GCTCTCCTGC AGTCTGGACT CTACACTATG
AGCAGCTCAG TGACTGTCCC CTCCAGCACC TGGCCAAGTC AGACCGTCAC
CTGCAGCGTT GCTCACCAG CCAGCAGCAC CACGGTGGAC AAAAAACTTG
AGCCCAGCGG GCCCATTTCA ACAATCAACC CCTGTCTTCC ATGCAAGGAG
TGTCACAAAT GCCCAGCTCC TAACCTCGAG GGTGGACCAT CCGTCTTCAT
CTTCCCTCCA AATATCAAGG ATGTACTCAT GATCTCCCTG ACACCCAAGG
TCACGTGTGT GGTGGTGGAT GTGAGCGAGG ATGACCCAGA CGTCCAGATC
AGCTGGTTTG TGAACAACGT GGAAGTACAC ACAGCTCAGA CACAAACCCA
TAGAGAGGAT TACAACAGTA CTATCCGGGT GGTGAGCACC CTCCCCATCC
AGCACCAGGA CTGGATGAGT GGCAAGGAGT TCAAATGCAA GGTCACAAC
AAAGACCTCC CATCACCCTAT CGAGAGAACC ATCTCAAAAA TTAAAGGGCT
AGTCAGAGCT CCACAAGTAT ACATCTTGCC GCCACCAGCA GAGCAGTTGT
CCAGGAAAGA TGTCAGTCTC ACTTGCTTGG TCGTGGGCTT CAACCCTGGA
GACATCAGTG TGGAGTGGAC CAGCAATGGG CATAACAGAGG AGAACTACAA
GGACACCGCA CCAGTCCTGG ACTCTGACGG TTCTTACTTC ATATATAGCA
AGCTCAATAT GAAAACAAGC AAGTGGGAGA AAACAGATTG CTTCTCATGC
AACGTGAGAC ACGAGGGTCT GAAAAATTAC TACCTGAAGA AGACCATCTC
CCGGTCTCCG GGTAAATGAG CTCAGCAGCC ACAAAGCTCT CAGGTCTTAA
GAGACACTGG CACCCATATC CATGCATCCC TTGTATAAAT AAAGCATCCA
GCAAAGCCTG GTACCATGTA AAAAAAAAAA AAAAAAAAAA
*****
```

FIG. 6A

2. m166 heavy chain (IgG2b) complete amino acid sequence:

(From the start codon to the stop codon)

MAVLGLLFCL VTFPSCVLSQ VOLKQSGPGL VQPSQSLST CTVSGFSLTS
YGVHWVROSP GKGLEWLGVI WSGGDDYNA AFISRLSISK DNSKSQLFFK
MNSLRATDTA IYYCARNRGD IYYDFTYAMD YWQGTSTVTV SSAKTPPSV
YPLAPGCGDT TGSSVTLGCL VKGYFPESVT VTWNSGSLSS SVHTFPALLO
SGLYTMSSSV TVPSSTWPSQ TVTCSVAHPA SSTTVDDKLE PSGPISTINP
CPPCKECHKC PAPNLEGGPS VFIFPPNIKD VLMISLTPKV TCVVVDVSED
DPDVQISWFV NNVEVHTAQT QTHREDYNST IRVVSTLPIQ HQDWMSGKEF
KCKVNNKDLPI SPIERTISKI KGLVRAPQVY ILPPPAEQLS RKDVSLTCLV
VGFNPGDISV EWTSNHTEE NYKDTAPVLD SDGSYFIYSK LNMKTSKWEK
TDSFSCNVRH EGLKNYYLKK TISRSPGK[STOP]

[Sig-pep] MAVLGLLFCLVTFPSCVLS

[VH-region]

FR1: QVOLKQSGPGLVQPSQSLSTCTVSGFSLT
CDR1: SYGVH
FR2: WVRQSPGKGLEWLG
CDR2: VIWSGGDDYNAAFIS
FR3: RLSISKDNSKSQLFFKMNSLRATDTAIYYCAR
CDR3: NRGDIYYDFTYAMDY
FR4: WQGTSTVTSS

[CH-region]

CH:
AKTTPPSVYP LAPGCGDTTG SSVTLGCLVK GYFPESVTVT WNSGSLSSSV
HTFPALLQSG LYTMSSSVTV PSSTWPSQTV TCSVAHPASS TTVDKKLEPS
GPISTINPCP PCKECHKCPA PNLEGGPSVF IFPPNIKDVL MISLTPKVTC
VVVDVSEDDP DVQISWVFN VEVHTAQTQT HREDYNSTIR VVSTLPIQH
DWMSGKEFKC KVNKDLPSPI IERTISKIKG LVRAPQVYIL PPPAEQLSRK
DVSLTCLVVG FNPBGDISVEW TSNHTEENY KDTAPVLDSG GSYFIYSKLN
MKTSKWEKTD SFSCNVRHEG LKNYYLKKTI SRSPGK[STOP]

FIG. 6B

m166 light chain

1. m166 light chain (k) complete mRNA sequence:

(From the transcriptional start point to the polyA tail)

```
*****
ACACCCTTTG CTGGAGTCAG AATCACA CTG ATCACACACA GTCATGAGTG
TGCTCACTCA GGTCTGGCG TTGCTGCTGC TGTGGCTTAC AGGTGCCAGA
TGTGACATCC AGATGACTCA GTCTCCAGCC TCCCTATCTG CATCTGTGGG
AGAAACTGTC ACCATCACAT GTCGAGCAAG TGGGAATATT CAAAATTATT
TAGCATGGTA TCAGCAGACA CAGGGAAAAT CTCCTCAGCT CCTGGTCTAT
TCTGCAAAAA CCTTAGCAGA TGGTGTGCCA TCAAGGTTCA GTGGCAGTGG
ATCAGGAACA CAATATTCTC TCAAGATCAA CAGCCTGCAG CCTGAAGATT
TTGGGAGTTA TTACTGTCAA CATTTTGGGA GTACTCCGTA CACGTTCCGA
GGGGGGACCA AGCTGGAAAT AAAACGGGCT GATGCTGCAC CAACTGTATC
CATCTTCCCA CCATCCAGTG AGCAGTTAAC ATCTGGAGGT GCCTCAGTCG
TGTGCTTCTT GAACAACCTC TACCCCAAAG ACATCAATGT CAAGTGGAAG
ATTGATGGCA GTGAACGACA AAATGGCGTC CTGAACAGTT GGAAGTATCA
GGACAGCAAA GACAGCACCT ACAGCATGAG CAGCACCTC ACGTTGACCA
AGGACGAGTA TGAACGACAT AACAGCTATA CCTGTGAGGC CACTCACAAG
ACATCAACTT CACCCATTGT CAAGAGCTTC AACAGGAATG AGTGTTAGAG
ACAAAGGTCC TGAGACGCCA CCACCAGCTC CCCAGCTCCA TCCTATCTTC
CCTTCTAAGG TCTTGGAGGC TTCCCACAA GCGACCTACC ACTGTTGCGG
TGCTCAAAC CTCCTCCCA CCTCCTTCTC CTCCTCCTCC CTTTCCTTGG
CTTTTATCAT GCTAATATT GCAGAAAATA TTCAATAAAG TGAGTCTTTG
CAAAAAAAAA AAAAAAAAAA AAAAAAAAA
*****
```

2. m166 light chain (k) amino acid complete sequence:

(From the start codon to the stop codon)

```
*****
MSVLTVQLAL LLLWLTGARC DIQMTQSPAS LSASVGETVT ITCRASGNIQ
NYLAWYQQTQ GKSPQLLVYS AKTLADGVPS RFGSGSGTQ YSLKINSLOP
EDFGSYQCQ FWSTPYTFGG GTKLEIKRAD AAPTVISIFPP SSEQLTSGGA
SVVCFLNNFY PKDINVWKI DGSERQNGVL NSWTDQDSKD STYSMSSTLT
LTKDEYERHN SYTCEATHKT STSPIVKSFN RNEC [STOP]
*****
```

[Sig-pep] MSVLTVQLALLLLWLTGARC

[VL-region]

FR1: DIQMTQSPASLSASVGETVTITC

CDR1: RASGNIQNYLA

FR2: WYQQTQGKSPQLLVY

CDR2: SAKTLAD

FR3: GVPSRFGSGSGTQYSLKINSLOPEDFGSYQC

CDR3: QHFWSTPYT

FR4: FGGGTKLEIKR

[CL-region]

CL: ADAAPTVISIFPPSSEQLTSGGASVVCFLNNFYPKDINVWKIDGSERQNGVL
NSWTDQDSKDSTYSMSSTLTTLTKDEYERHNSYTCEATHKTSTSPIVKSFN RNEC [STOP]

FIG. 7